

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: U.S. Patent No. 7,082,159

USPTO CONFIRMATION CODE: 2032

APPLICATION NO.: 09/995,759

FILED: November 29, 2001

EXAMINER: Jean B. Corrielus

GROUP ART UNIT: 2611

FOR: METHODS AND ARRANGEMENTS IN A TELECOMMUNICATIONS  
SYSTEM

37 CFR 1.322 & 37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION  
FOR USPTO MISTAKE

HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS

SIR:

The following is a request for a certificate of correction in Serial Number 09/995,759, now Patent Number 7,082,159.

A certificate of correction under 35 USC 254 is respectfully requested in the above-identified patent.

The errors were the fault of both the applicant and USPTO and, accordingly, please charge \$100.00 to our Deposit Account No. 50-1379. In the event that a further fee is required, please charge the amount to the same Deposit Account.

The exact locations where the errors appear in the patent and patent application are as follows:

On the Face Page, Field(57), under "Abstract", in Column 2, Lines 12-13, after "being" delete "p(n) is cyclically rotated by a predetermined step, said predetermined step being".

(NOTICE OF ALLOWANCE AND FEES DUE (PTOL-85) DATED MARCH 22, 2006, PAGE 4, LINES 8-9)

On Page 2, in Field (56), under "U.S. PATENT DOCUMENTS", in Column 1, Line 7, delete "B1" and insert - - B2 - -, therefor.

(LIST OF REFERENCE CITED BY EXAMINER DATED DECEMBER 23, 2005, PAGE 1 OF 1, UNDER U.S. PATENT DOCUMENTS. ENTRY NO. 1)

In Column 1, Line 15, delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 1, LINE 8)

In Column 1, Line 32, delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 1, LINE 24)

In Column 2, Line 3, delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 2, LINE 26)

In Column 2, Line 10, delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 2, LINE 32)

In Column 2, Line 13, delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 3, LINE 1)

In Column 4, Line 39, after "Chicago" delete "III" and insert - - IL - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 7, LINE 4)

In Column 6, Line 22, delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 9, LINE 31)

In Column 6, Line 33, delete "space(-time)" and insert - - space-time - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 10, LINE 8)

In Column 6, Line 38, after "increasc" delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 10, LINE 12)

In Column 6, Line 44, after "very" delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 10, LINE 17)

In Column 6, Line 65, delete "bandwith" and insert - - bandwidth - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 11, LINE 3)

In Column 7, Line 11, after "sequence" delete "P(K)" and insert - - P(k) - -, therefor.

(ORIGINALLY FILED SPECIFICATION NOVEMBER 29, 2001, PAGE 11, LINE 14)

In Column 9, Line 6, delete "(DIA)" and insert - - (D/A) - -, therefor.  
(AMENDMENTS TO THE SPECIFICATION DATED NOVEMBER 14, 2005, PAGE 2, LINE 26)

In Column 9, Line 7, delete "analogue" and insert - - analog - -, therefor.  
(AMENDMENTS TO THE SPECIFICATION DATED NOVEMBER 14, 2005, PAGE 2, LINE 26)

In Column 9, Line 17, after the equation " $r_1(n)=p(n)*h_{11}(n)+p(n-n')*h_{21}(n)+v_1(n)$ " insert - - , where - -.  
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2001, PAGE 15, LINE 3)

In Column 9, Line 30, delete "K" and insert - - k - -, therefor.  
(ORIGINALLY FILED SPECIFICATION DATED NOVEMBER 29, 2001, PAGE 15, LINE 13)

In Column 12, Lines 7-8, delete " $H_{comp}(n)=h_{11}(n-n')+h_{21}(n-n_2')+h_{31}(n-n_3')+h_{41}(n-n')+w_1(n)$ " and insert - -  $H_{comp}(n)=h_{11}(n-n')+h_{21}(n-n_2')+h_{31}(n-n_3')+h_{41}(n-n_4')+w_1(n)$  - -. therefor.  
(ORIGINALLY FILED IN SPECIFICATION DATED NOVEMBER 29, 2001, PAGE 20, LINE 4)

In Column 12, Lines 12-13, delete "durat" and insert - - duration, - -, therefor.  
(ORIGINALLY FILED IN SPECIFICATION DATED NOVEMBER 29, 2001, PAGE 20, LINE 6)

In Column 12, Line 12, delete "duration," and insert - - duration. - -, therefor.  
(ORIGINALLY FILED IN SPECIFICATION DATED NOVEMBER 29, 2001, PAGE 20, LINE 7)

In Column 12, Line 60, delete "(OP)" and insert - - (CP) - -, therefor.  
(AMENDMENTS TO THE SPECIFICATION DATED NOVEMBER 14, 2005, PAGE 3, LINE 19)

In Column 13, Line 19, after "arrives" insert - - , - -.  
(AMENDMENT TO THE SPECIFICATION DATED NOVEMBER 14, 2005, PAGE 4, LINE 9)

In Column 13, Line 29, delete "(k)." and insert - - (k), - -, therefor.  
(AMENDMENT TO THE SPECIFICATION DATED NOVEMBER 14, 2005, PAGE 4, LINE 15)

In Column 15, Line 10, in Claim 14, after "antennas" insert - - ; - -.  
(AMENDMENT TO THE CLAIMS DATED FEBRUARY 8, 2006,  
PAGE 6 OF 14, CLAIM 16, LINE 3)

In Column 15, Line 19, in Claim 14, after "branch" insert - - , - -.  
(AMENDMENT TO THE CLAIMS DATED FEBRUARY 8, 2006,  
PAGE 6 OF 14, CLAIM 16, LINE 9)

In Column 15, Line 24, in Claim 14, delete "p(n-n 2)" and insert - - p(n-n2) - -, therefor.  
(AMENDMENT TO THE CLAIMS DATED FEBRUARY 8, 2006,  
PAGE 6 OF 14, CLAIM 16, LINE 12)

In Column 15, Line 26, in Claim 14, delete "n1)." and insert - - n1), - -, therefor.  
(AMENDMENT TO THE CLAIMS DATED FEBRUARY 8, 2006,  
PAGE 6 OF 14, CLAIM 16, LINE 13)

In Column 15, Line 26, in Claim 14, delete "p(n-n 2)" and insert - - p(n-n2) - -, therefor.  
(AMENDMENT TO THE CLAIMS DATED FEBRUARY 8, 2006,  
PAGE 6 OF 14, CLAIM 16, LINE 13)

In Column 15, Line 48, in Claim 18, delete "P(k):" and insert - - P(k); - -, therefor.  
(AMENDMENTS TO THE CLAIMS DATED FEBRUARY 8, 2006,  
PAGE 7 OF 14, CLAIM 20, LINE 6)

In Column 16, Line 49, in Claim 26, delete "claim 2" and insert - - claim 22 - - , therefor.  
(AMENDMENTS TO THE CLAIMS DATED FEBRUARY 8, 2006, PAGE 9 OF 14,  
CLAIM 29, LINE 8)

The requested corrections are attached on Form PTO 1050.

Respectfully Submitted

October 25, 2007

/Sidney L. Weatherford, Reg. #45602/

DATE

Sidney L. Weatherford  
Registration No. 45602

Attorney of Record

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 1 of 4

PATENT NO. : 7,082,159 B2

APPLICATION NO. : 09/995,759

ISSUE DATE : July 25, 2006

INVENTOR(S) : Larsson

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Face Page, in Field (57), under "Abstract", in Column 2, Lines 12-13, after "being" delete "p(n) is cyclically rotated by a predetermined step, said predetermined step being".

On Page 2, in Field (56), under "U.S. PATENT DOCUMENTS", in Column 1, Line 7, delete "B1" and insert -- B2 --, therefor.

In Column 1, Line 15, delete "bandwith" and insert -- bandwidth --, therefor.

In Column 1, Line 32, delete "bandwith" and insert -- bandwidth --, therefor.

In Column 2, Line 3, delete "bandwith" and insert -- bandwidth --, therefor.

In Column 2, Line 10, delete "bandwith" and insert -- bandwidth --, therefor.

In Column 2, Line 13, delete "bandwith" and insert -- bandwidth --, therefor.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

6300 Legacy, MS EVR 1-C-11  
Plano, TX 75024  
972-583-8656

This collection of information is required by 37 CFR 1.322, and 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patent, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

Page 2 of 4

PATENT NO. : 7,082,159 B2

APPLICATION NO. : 09/995,759

ISSUE DATE : July 25, 2006

INVENTOR(S) : Larsson

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 4, Line 39, after "Chicago" delete "III" and insert - - IL - -, therefor.

In Column 6, Line 22, delete "bandwith" and insert - - bandwidth - -, therefor.

In Column 6, Line 33, delete "space(-time)" and insert - - space-time - -, therefor.

In Column 6, Line 38, after "increase" delete "bandwith" and insert - - bandwidth - -, therefor.

In Column 6, Line 44, after "very" delete "bandwith" and insert - - bandwidth - -, therefor.

In Column 6, Line 65, delete "bandwith" and insert - - bandwidth - -, therefor.

In Column 7, Line 11, after "sequence" delete "P(K)" and insert - - P(k) - -, therefor.

In Column 9, Line 6, delete "(D/A)" and insert - - (D/A) - -, therefor.

In Column 9, Line 7, delete "analogue" and insert - - analog - -, therefor.

In Column 9, Line 17, after "r<sub>1</sub>(n)=p(n)\*h<sub>11</sub>(n)+p(n-n')\*h<sub>21</sub>(n)+v<sub>1</sub>(n)" insert - - , where - - .

MAILING ADDRESS OF SENDER (Please do not use customer number below):

6300 Legacy, MS EVR 1-C-11  
 Plano, TX 75024  
 972-583-8656

This collection of information is required by 37 CFR 1.322, and 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patent, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

Page 3 of 4

PATENT NO. : 7,082,159 B2

APPLICATION NO. : 09/995,759

ISSUE DATE : July 25, 2006

INVENTOR(S) : Larsson

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 9, Line 30, delete "K" and insert - - k - -, therefor.

In Column 12, Lines 7-8, delete " $H_{comp}(n)=h_{11}(n-n') + h_{21}(n-n_2') + h_{31}(n-n_3') + h_{41}(n-n_4') + w_1(n)$ " and

insert - -  $H_{comp}(n)=h_{11}(n-n') + h_{21}(n-n_2') + h_{31}(n-n_3') + h_{41}(n-n_4') + w_1(n)$  - -, therefor.

In Column 12, Lines 12-13, delete "durat" and insert - - duration. - -, therefor.

In Column 12, Line 12, delete "duration" and insert - - duration. - -, therefor.

In Column 12, Line 60. delete "(OP)" and insert - - (CP) - -, therefor.

In Column 13, Line 19, after "arrives" insert - - , - -.

In Column 13, Line 29. delete "(k)." and insert - - (k), - -, therefor.

In Column 15, Line 10, in Claim 14, after "antennas" insert - - : - -.

In Column 15, Line 19, in Claim 14, after "branch" insert - - , - -.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

6300 Legacy, MS EVR 1-C-11  
 Plano, TX 75024  
 972-583-8656

This collection of information is required by 37 CFR 1.322, and 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patent, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 4 of 4

PATENT NO. : 7,082,159 B2

APPLICATION NO. : 09/995,759

ISSUE DATE : July 25, 2006

INVENTOR(S) : Larsson

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 15, Line 24, in Claim 14, delete "p(n-n 2)" and insert - - p(n-n2) - -, therefor.

In Column 15, Line 26, in Claim 14, delete "n1)." and insert - - n1), - -, therefor.

In Column 15, Line 26, in Claim 14, delete "p(n-n 2)" and insert - - p(n-n2) - -, therefor.

In Column 15, Line 48, in Claim 18, delete "P(k):" and insert - - P(k); - -, therefor.

In Column 16, Line 49, in Claim 26, delete "claim 2" and insert - - claim 22 - -, therefor.

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

6300 Legacy, MS EVR 1-C-11  
Plano, TX 75024  
972-583-8656

This collection of information is required by 37 CFR 1.322, and 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patent, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*